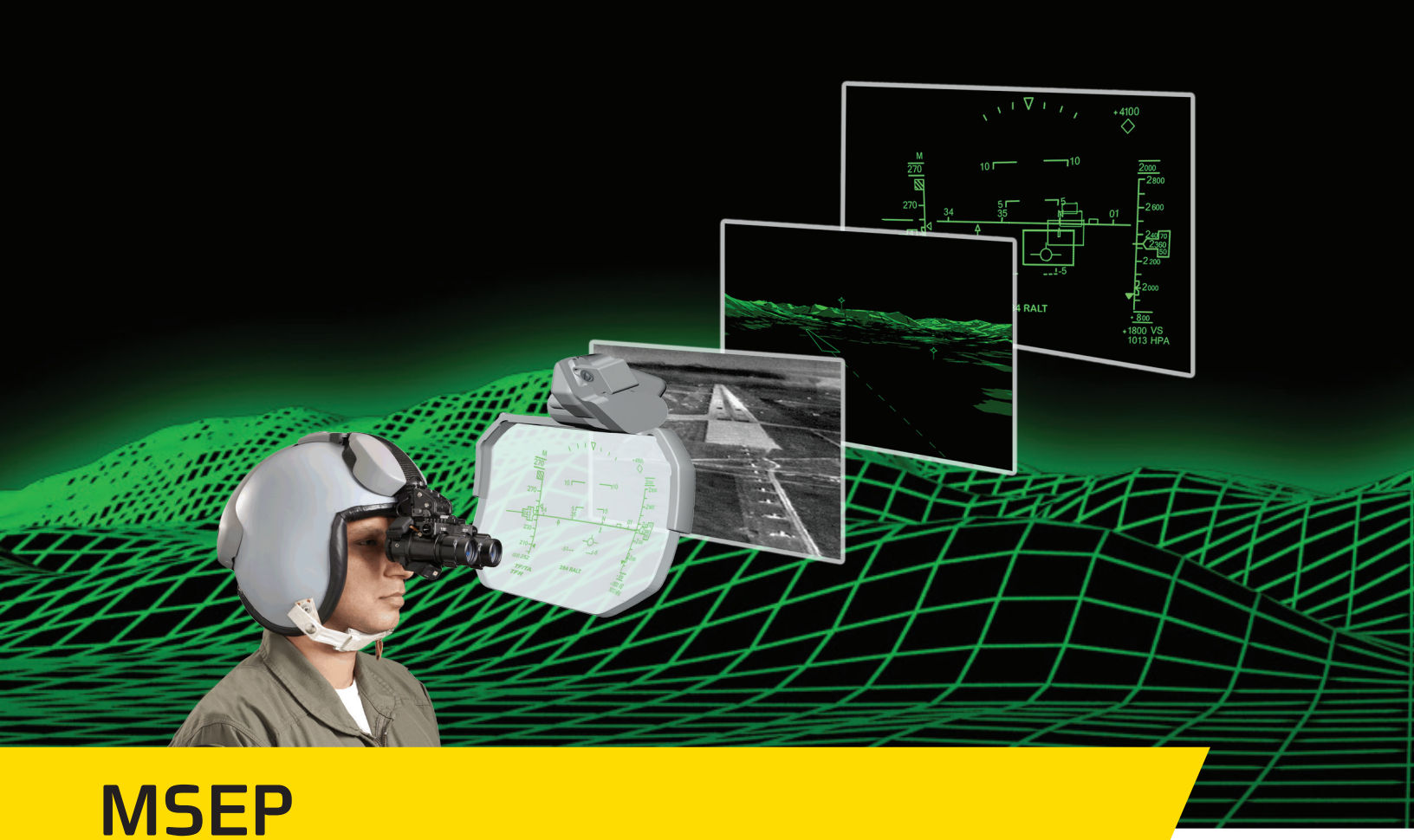
C-Suite Tactical

Mission Safety Equipment Package (MSEP) for the C-130

Vision for your Mission.

Elbit Systems™ Aerospace



MSEP

Mission Safety Equipment Package
A Modular System for C-130 Tactical and Special Missions

Our Vision for C-130 Tactical and Special Missions:

- Obtain full operational capabilities during day, night and in all weather conditions
- Attain Low Probability of Intercept/Low Probability of Detection (LPI/LPD)
- Avoid Controlled Flight into Terrain (CFIT)

Our Solution:

The C-Suite Tactical - A highly sophisticated Mission Safety Equipment Package, is made up of several applications based on a Digital Terrain Elevation Database (DTED) and real time sensors, created to enhance the capabilities of low altitude tactical missions using Elbit Systems' HUD, the 'Magic Window'.

Our Promise:

To enable safe low altitude tactical maneuverability under all conditions, in addition to complete situational awareness and critical safety information for tactical and special missions.

C-Suite Tactical Applications:

TF/TA (Terrain Following/ Terrain Avoidance)

Enables accurate low level flight in any condition, significant reduction of pilots workload and CFIT immunity

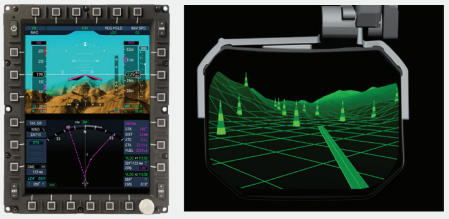
- The TF/TA application provides clear, distinct and unambiguous flight guidance to maintain an accurate low level flight pattern in Day, Night and All weather conditions
- TF/TA is based on a Digital Terrain Elevation Database (DTED) fused with a real time ground mapping radar, designed to operate within the aircrafts performance envelope
- The TF/TA ensures safer operation over all types of terrain, including: high mountains, rolling hills, level terrain and man-made obstacles

* The TF/TA application is based on collaboration between Elbit Systems and Northrop Grumman; promoting an integrated solution that combines the AN/APN-241 Terrain Following Radar with Elbit Systems TF/TA application.

SVS (Synthetic Vision System)

Provides flight crews with a clear view of their environment, when out of sight, enabling a variety of new mission capabilities

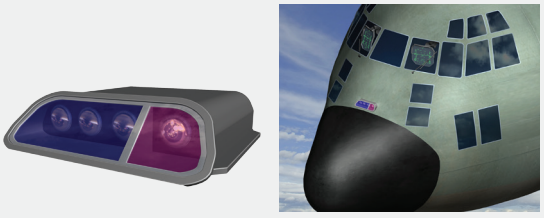
- The SVS displays a clear and intuitive 3D synthetic image of the external environment on PFD, HUD or the Helmet Mounted Display
- Based on a DTED, the SVS image is overlaid with the on-screen graphic flight-plan, runways, man-made obstacles and critical flight data



EVS (Enhanced Vision System)

Provides clear vision of the terrain through night and low visibility conditions

- EVS is a highly sensitive, wide spectrum infrared camera that provides real-time video images of the flight terrain on PFD, HUD or the Helmet Mounted Display
- EVS fuses both near and medium IR spectrum to provide clear images through dark night and harsh weather conditions, therefore enabling low altitude maneuverability as well as precision approaches and safe landing in reduced visibility



C-Suite Tactical

Mission Safety Equipment Package (MSEP) for the C-130

The C-Suite Tactical is a flexible, modular solution created to effectively perform under the harsh and demanding conditions created by low altitude tactical environments.

The C-Suite Tactical provides accurate, real-time information projected on the Head-Up, Head-Down or Helmet-Mounted display enabling a safer and more precise mission execution as well as greater situational awareness.

The C-Suite Tactical applications are a seamless integration of complex sensors and systems suited specifically to the C-130 flight deck avionics.

The C-Suite Mission Safety Equipment Package:

- Head-Up Display (HUD) with video input capabilities
- Helmet Mounted Display with video input and Line-Of-Sight capabilities (HMD/LOS)
- Height Above Terrain (HAT)
- Terrain Awareness and Warning System (TAWS)
- Synthetic Vision System (SVS)
- Enhanced Vision System (EVS)
- Terrain Following/Terrain Avoidance system (TF/TA)

Elbit Systems vast experience integrating complex systems on projects accomplished locally and globally, allow for the smooth, cost-effective integration of the C-Suite Tactical (MSEP) into Elbit Systems ORIA™ "Glass-Cockpit" display system.

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